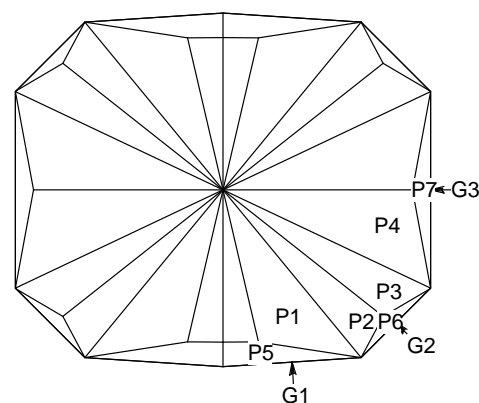
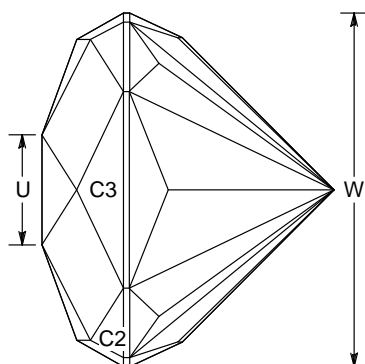
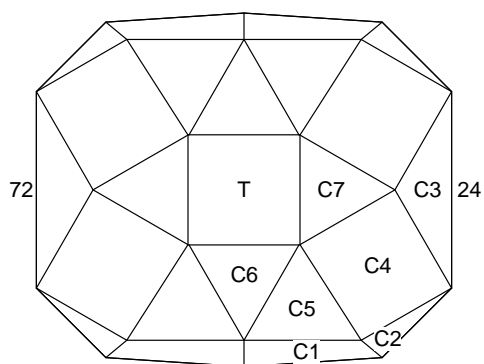


60

48

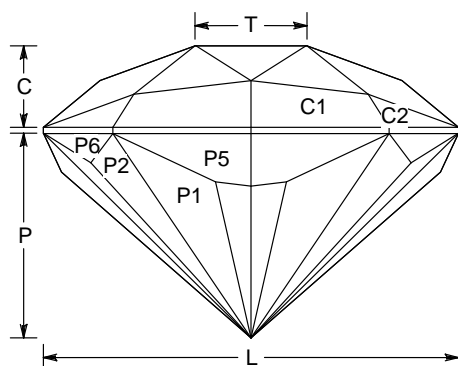
36



84

&lt;96&gt;

12



### Tesselation 3 (F)

"Ah, to be more prolific than Marco Voltolini..."

Suite: Tesselation Party!

by Arya Akhavan (October 2012)

Angles for R.I. = 1.730

53 + 10 girdles = 63 facets

2-fold, mirror-image symmetry

96 index

L/W = 1.174 T/W = 0.317 U/W = 0.311

P/W = 0.579 C/W = 0.230

Vol./W<sup>3</sup> = 0.382

#### PAVILION

|    |        |                         |                                    |
|----|--------|-------------------------|------------------------------------|
| P1 | 45.14° | 02-05-43-46-50-53-91-94 | Cut to centerpoint.                |
| P2 | 44.50° | 06-42-54-90             | Meet at culet.                     |
| P3 | 41.73° | 18-30-66-78             | Meet at culet.                     |
| P4 | 42.16° | 20-28-68-76             | Meet at culet.                     |
| G1 | 90.00° | 01-47-49-95             | Set stone size.                    |
| G2 | 90.00° | 12-36-60-84             | Meet P1, P2, G1                    |
| G3 | 90.00° | 24-72                   | Meet P3, P4, G2                    |
| P5 | 65.00° | 01-47-49-95             | Meet P1, P2, G1, G2 (level girdle) |
| P6 | 65.00° | 12-36-60-84             | Level girdle.                      |
| P7 | 65.00° | 24-72                   | Level girdle.                      |

#### CROWN

|    |        |             |                         |
|----|--------|-------------|-------------------------|
| C1 | 60.54° | 01-47-49-95 | Set girdle width.       |
| C2 | 50.71° | 12-36-60-84 | Level girdle.           |
| C3 | 39.51° | 24-72       | Level girdle.           |
| C4 | 27.46° | 18-30-66-78 | Meet G2, G3, C2, C3     |
| C5 | 24.10° | 04-44-52-92 | Meet C1, C2, C4         |
| C6 | 20.07° | 96-48       | Meet C1, C5             |
| C7 | 20.07° | 24-72       | Meet C3, C4; C4, C5, C6 |
| T  | 0.00°  | Table       | Meet C4, C5, C6, C7     |

This F-type pattern has a bit of a slow, laborious pavilion, but has impressive light return and play of light. The crown is very interesting as well, hosting squares and triangles very cleanly. This design works best in rhodolite garnet, but can be cut in materials from feldspar to rutile (RI = 1.52 - 2.62) with no changes.

Suggested length = 7-12 mm

C:\Program Files (x86)\GemCAD\Designs (Mine)\Works in Progress\Tesselations\Tesselation 3 (F) - Ah, To be More Prolific than M